



2827

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Akram et al.

Serial No.: 09/944,499

Filed: August 30, 2001

For: STABILIZERS FOR FLIP-CHIP TYPE
SEMICONDUCTOR DEVICES AND
SEMICONDUCTOR DEVICE
COMPONENTS AND ASSEMBLIES
INCLUDING THE SAME (amended)

Examiner: A. Chambliss

Group Art Unit: 2827

Attorney Docket No.: 2269-3936.1US

CERTIFICATE OF MAILING

I hereby certify that this correspondence along with any attachments referred to or identified as being attached or enclosed is being deposited with the United States Postal Service as First Class Mail on the date of deposit shown below with sufficient postage and in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
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Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 or PTO/SB/08 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

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In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

U.S. Patent Documents

| <u>U.S. Patent No.</u> | <u>Publication Date</u> | <u>Patentee</u> |
|------------------------|-------------------------|------------------|
| US. - 6,251,488 | 06/26/01 | Miller et al. |
| US - 6,259,962 | 07/10/01 | Gothait |
| US - 6,268,584 | 07/31/01 | Keicher et al. |
| US - 6,326,698 | 12/04/01 | Akram |
| US - 6,391,251 | 05/21/02 | Keicher et al. |
| US - 6,461,881 | 10/08/02 | Farnworth et al. |
| US - 6,506,671 | 01/14/03 | Grigg |
| US - 6,525,408 | 02/25/03 | Akram et al. |
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| US - 6,548,897 | 04/15/03 | Grigg |
| US - 6,569,753 | 05/27/03 | Akram et al. |
| US - 6,630,365 | 10/07/03 | Farnworth et al. |
| US - 6,649,444 | 11/18/03 | Earnworth et al. |

Other Documents

U.S. Patent Application Publication No. 2002/0105074 A1 to Akram et al., dated August 8, 2002

U.S. Patent Application Publication No. 2002/0171177 A1 to Kritchman et al., dated November 21, 2002

U.S. Patent Application Publication No. 2003/0022462 A1 to Farnworth et al., dated January 30, 2003

U.S. Patent Application Publication No. 2003/0089999 A1 to Akram, dated May 15, 2003

U.S. Patent Application Publication No. 2003/0092220 A1 to Akram, dated May 15, 2003

U.S. Patent Application Publication No. 2003/0098499 A1 to Akram et al., dated May 29, 2003

U.S. Patent Application Publication No. 2003/0139030 A1 to Grigg, dated July 24, 2003

U.S. Patent Application Publication No. 2003/0151167 A1 to Kritchman et al., dated August 14, 2003

U.S. Patent Application Publication No. 2003/0170921 A1 to Akram, dated September 11, 2003

U.S. Patent Application Publication No. 2003/0173665 A1 to Grigg, dated September 18, 2003

U.S. Patent Application Publication No. 2003/0176016 A1 to Grigg, dated September 18, 2003

U.S. Patent Application Publication No. 2003/0203612 A1 to Akram et al., dated October 30, 2003

MILLER et al., "Maskless Mesoscale Materials Deposition", Deposition Technology, September 2001, pages 20-22

MILLER, "New Laser-Directed Deposition Technology", Microelectronic Fabrication, August 2001, page 16

Webpage, Objet Prototyping the Future, Objet FullCure700 Series, 1 page

Webpage, Objet Prototyping the Future, How it Works, 2 pages

U.S. Patent Application No. 09/590, 527, filed June 8, 2000, entitled "Structures For Stabilizing Semiconductor Devices Relative to Test Substrates and Methods for Fabricating the Stabilizers", inventor Salman Akram

U.S. Patent Application No. 10/201,208, filed July 22, 2002, entitled "Thick Solder Mask for Confining Encapsulant Material Over Selected Locations of a Substrate, Assemblies Including the Solder Mask, and Methods", inventor Grigg et al.

U.S. Patent Application No. 10/688,354, filed October 17, 2003, entitled "Thick Solder Mask for Confining Encapsulant Material Over Selected Locations of a Substrate and Assemblies Including the Solder Mask", inventor Grigg et al.

Applicants offer to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is filed after the mailing date of the first Office Action on the merits.

The fee pursuant to 37 C.F.R. § 1.17(p) is enclosed.

Respectfully submitted,



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Date: December 1, 2003

BGP/rmh

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| First Named Inventor | Akram et al. |
| Group Art Unit | 2827 |
| Examiner Name | A. Chambliss |
| Attorney Docket Number | 3936.1US (99-0066.01/US) |

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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| Examiner Name | A. Chambliss |
| Attorney Docket Number | 3936 LJS (99-0066 01/LJS) |

| OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS | | | |
|----------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | U.S. Patent Application Publication No. 2002/0105074 A1 to Akram et al., dated August 8, 2002 | |
| | | U.S. Patent Application Publication No. 2002/0171177 A1 to Kritchman et al., dated November 21, 2002 | |
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| | | U.S. Patent Application Publication No. 2003/0176016 A1 to Grigg, dated September 18, 2003 | |

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| Examiner Name | A. Chambliss |

Attorney Docket Number

3936 11JS (99-0066 01/1JS)

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|---------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| | | U.S. Patent Application Publication No. 2003/0203612 A1 to Akram et al., dated October 30, 2003 | |
| | | MILLER et al., "Maskless Mesoscale Materials Deposition", Deposition Technology, September 2001, pages 20-22 | |
| | | MILLER, "New Laser-Directed Deposition Technology", Microelectronic Fabrication, August 2001, page 16 | |
| | | Webpage, Objet Prototyping the Future, Objet FullCure700 Series, 1 page | |
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| | | U.S. Patent Application No. 09/590, 527, filed June 8, 2000, entitled "Structures For Stabilizing Semiconductor Devices Relative to Test Substrates and Methods for Fabricating the Stabilizers", inventor Salman Akram | |
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